

Attorney's Docket No. 4363.P005C

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:)	
)	
David M. Colleran et al.)	Examiner: Not Yet Assigned
)	
Application No.: Not Yet Assigned)	Art Unit: Not Yet Assigned
)	
Filed: March 26, 2004)	
)	
For: AUTOMATIC PHASE LOCK)	
LOOP DESIGN USING)	
GEOMETRIC PROGRAMMING)	
)	
Which is a continuation of:)	
)	
Application No.: 10/119,347)	Examiner: Mis, David C.
)	
Filed: April 7, 2002)	Art Unit: 2817.
)	

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). This IDS

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(Date of Deposit)

Esther Campbell

(Typed or printed name of person mailing correspondence)



(Signature of person mailing correspondence)

and IDS Citation Form are being submitted concurrently with the Continuation Application. It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s). Some or all of the references listed on the enclosed PTO/SB/08 were previously identified in the parent application (Application No.: 10/119,347, filed April 7, 2002 and copies of the references were furnished at that time.


Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

If there are any additional charges, please charge Deposit Account No. 02-2666.
A duplicate copy of the Fee Transmittal is enclosed for this purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: March 26, 2004

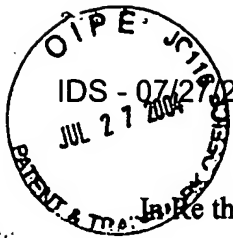


Chui-Kiu Teresa Wong, Reg. No. 48,042

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Based on PTO/SB/08B (08-03) as modified by Blakely, Solotoff, Taylor & Zafman (wtr) 08/11/2003.
Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



IDS - 07/27/2004

JUL 27 2004

JFW
Docket No.: 4363P005C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

DAVID M. COLLERAN, ET AL.

Application No.: 10/810,444

Filed: March 26, 2004

For: **Automatic Phase Lock Loop Design Using
Geometric Programming**

Art Group: TBA

Examiner: TBA

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). This IDS and IDS Citation Form are being submitted before the mailing of a first Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).


The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: July 23, 2004


Chui-Kiu Teresa Wong, Reg. No. 48,042

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Esther L. Campbell

07-23-04

Date



TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>		Application No.	10/810,444
		Filing Date	March 26, 2004
		First Named Inventor	David M. Collieran
		Art Unit	TBA
		Examiner Name	TBA
Total Number of Pages in This Submission	28	Attorney Docket Number	4363P005C

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> PTO/SB/08 <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Basic Filing Fee <input type="checkbox"/> Declaration/POA <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">19 cited references and Return Receipt Postcard.</div>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Chui-Kiu Teresa Wong, Reg. No. 48,042 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	July 23, 2004

CERTIFICATE OF MAILING/TRANSMISSION			
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Typed or printed name	Esther L. Campbell		
Signature		Date	July 23, 2004



FEE TRANSMITTAL for FY 2004

Effective 10/01/2004. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$)

0.00

Complete if Known

Application Number 10/810,444
Filing Date March 26, 2004
First Named Inventor David M. Collieran
Examiner Name TBA
Art Unit TBA
Attorney Docket No. 4363P005C

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None
☒ Deposit Account

Deposit
Account
Number

02-2666

Deposit
Account
Name

Blakely, Sokoloff, Taylor & Zafman LLP

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) or underpayment of fees as required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.
☐ Charge fee(s) indicated below, except for the filing fee - to the above-identified deposit account

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$)

2. EXTRA CLAIM FEES

Total Claims 8 * 20* = 0 X 18.00 = \$0.00
Independent Claims 2 * 3* = 0 X 86.00 = \$0.00
Multiple Dependent

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	280	2203	145	Multiple Dependent claim, if not paid	
1204	86	2204	43	**Reissue independent claims over original patent	
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					(\$) 0.00

*or number previously paid, if greater, For Reissues, see below

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
2053	130	2053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	* Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	* Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1404	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	2451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	2460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	1809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$)

SUBMITTED BY

Complete (if applicable)

Name (Print/Type) Chui-Kiu Teresa Wong

Registration No.
(Attorney/Agent)

48,042

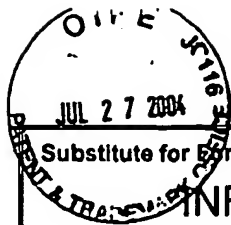
Telephone

(408) 720-8300

Signature

Date

07/23/04



Substitute for Form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/810,444
Filing Date	March 26, 2004
First Named Inventor:	Dave Collieran
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	4363P005C

Sheet 1 of 3

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
DM		us-	6,311,145 B1	10/30/2001	Hershenson	
DM		us-	6,425,111 B1	7/23/2002	del Mar Hershenson	
DM		us-	6,577,992 B1	6/10/2003	Tcherniaev, et al.	
DM		us-	6,532,569 B1	3/11/2003	Christen, et al.	
DM		us-	6,381,563 B1	4/30/2002	O'Riordan, et al.	
DM		us-	4,827,428	5/2/1989	Dunlop, et al.	
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		us-				
		us-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

Examiner Signature	/David Mis/ (09/27/2006)	Date Considered	09/27/2006
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/810,444
				Filing Date	March 26, 2004
				First Named Inventor:	Dave Colleran
				Art Unit	TBA
				Examiner Name	TBA
Sheet	2	of	3	Attorney Docket Number	4363P005
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
DM		KORTANEK, K.O., et al., "An Infeasible Interior-Point Algorithm For Solving Primal And Dual Geometric Programs," pp., 155-181, Mathematical Programming Society, Inc., 76:155-181, January 1, 1995.			
DM		GIELEN, G., et al., "An Analogue Module Generator For Mixed Analogue/Digital ASIC Design", International Journal of Circuit Theory and Applications, Vol. 23, pp. 269-283, 1995.			
DM		HERSHENSON, M., et al., "Automated Design of Folded-Cascode Op-Amps with Sensitivity Analysis", pp. 121-124, Electronics, Circuits and Systems, IEEE International Conference on LISBOA, September 7-10, 1998.			
DM		HERSHENSON, M., et al., "Optimization of Inductor Circuits via Geometric Programming", pp. 994-998, Design Automation Conference, June 21, 1999, Proceedings.			
DM		MEDIERO, F., et al., "A Vertically Integrated Tool For Automated Design Of Sigma Delta Modulators", IEEE Journal of Solid-State Circuits, Vol. 30., No. 7, July 1, 1995, pp. 762-767.			
DM		HERSHENSON, M., et al., "Optimal Design Of A CMOS Op-Amp Via Geometric Programming", IEEE Transactions On Computer Aided Design Of Integrated Circuits And Systems, Vol. 20., N. 1 January 2001, pp. 1-21.			
DM		MANDAL, P., et al., "CMOS Op-Amp Sizing Using A Geometry Programming Formulation", IEEE Transactions On Computer Aided Design Of Integrated Circuits And Systems, Vol. 20., No. 1, January 31, 2001, pp. 22-38.			
DM		DAEMS, W., et al., "Simulation-based Automatic Generation Of Signomial And Posynomial Performance Models For Analog Integrated Circuit Sizing", IEEE/ACM International Conference On Computer-Aided Design, November 4, 2001, pp. 70-74.			
DM		VON KAENEL, V., et al., "A 320MHz, 1.5mW at 1.36V CMOS PLL For Microprocessor Clock Generation", IEEE Solid-State Circuits Conference, February 9, 1996, Digest of Technical Papers, 42nd ISSCC96/ SESSION 8 / DIGITAL CLOCKS AND LATCHES / PAPER FA 8.2.			
DM		YOUNG, et al., "A PLL Clock Generator with 5 to 110 MHz of Lock Range for Microprocessor", IEEE Journal of Solid-State Circuits, Vol. 27, No. 11, November 1992, pp. 1599-1607.			
DM		NOVOF, et al., "Fully Integrated CMOS Phase-Locked Loop with 15 to 240 MHz Locking Range and + 50 ps Jitter", IEEE Journal of Solid-State Circuits, Vol. 30., No. 11, November 1995, pps. 1259-1266.			

Examiner Signature	/David Mis/ (09/27/2006)	Date Considered	09/27/2006
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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.
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*TW*Attorney's Docket No. 004363.P005C

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

David M. Colleran

Application No.: 10/810,444

Filed: March 26, 2004

For: Automatic Phase Lock Loop Design
Using Geometric Programming

Examiner: Not Yet Assigned

Art Unit: Not Yet Assigned

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450INFORMATION DISCLOSURE STATEMENT

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Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

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(Date of Deposit)

Tina Wainwright
(Typed or printed name of person mailing correspondence)

Tina Wainwright
(Signature of person mailing correspondence)

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Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):


- X 37 C.F.R. §1.97(b).
- 37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:
- A statement pursuant to 37 C.F.R. §1.97(e) or
- A check for \$180.00 for the fee under 37 C.F.R. § 1.17(p).
- 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:
- (1) A statement pursuant to 37 C.F.R. §1.97(e); and
 - (2) A check for \$180.00 for the fee under 37 C.F.R. §1.17(p) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 9/2, 2004


Chui-Kiu Teresa Wong
Reg. No. 48,042

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Seventh Floor
Los Angeles, CA 90025
(408) 720-8300

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known Application Number: 10/810,444 Filing Date: March 26, 2004 First Named Inventor: David M. Collieran Art Unit: Not Yet Assigned Examiner Name: Not Yet Assigned Attorney Docket Number: 004363.P005C		
Sheet	1	of	3			
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
DM		US-	6,578,179 B2	06-10-2003	Shirotori, et al.	
DM		US-	6,574,786 B1	06-03-2003	Pohlenz, et al.	
DM		US-	6,539,533 B1	03-25-2003	Brown, III et al.	
DM		US-	6,581,188	06-17-2003	Hosomi, et al.	
DM		US-	6,311,315	10-30-2001	Tamaki	
DM		US-	6,002,860	12-14-1999	Voinigescu, et al.	
DM		US-	5,754,826	05-19-1998	Gamal, et al.	
DM		US-	5,633,807	05-27-1997	Fishburn, et al.	
DM		US-	5,055,716	10-08-1991	El Gamel	
DM		US-	5,289,021	02-22-1994	El Gamel	
		US-				
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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

Examiner Signature	/David Mis/ (09/27/2006)	Date Considered	09/27/2006
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

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SEP 07 2004

Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/810,444
Filing Date	March 26, 2004
First Named Inventor:	David M. Collieran
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	004363.P005C

Sheet 2 of 3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
DM		HERSHENSON, M., et al., "GPCAD: A Tool for CMOS Op-Amp Synthesis" 8 pages, Proceedings of the IEEE/ACM International Conference on Computer Aided Design (ICCAD), pp. 296-303, November 1998.	
DM		HERSHENSON, M., et al., "Posynomial models for MOSFETs" 9 pages, July 7, 1998.	
DM		CHANG, H, et al., "A Top-Down, Constraint-Driven Design Methodology for Analog Integrated Circuits" 6 pages, IEEE 1992 Custom Integrated Circuits Conference.	
DM		CHAVEZ, J., et al, "Analog Design Optimization: A Case Study" 3 pages, IEEE, January 1993.	
DM		GEILEN, G., et al., "Analog Circuit Design Optimization Based on Symbolic Simulation and Simulated Annealing", pp. 707-713, IEEE Journal of Solid-State Circuits, Vol. 25, No. 3, June 1990.	
DM		FISHBURN, J, et al., "TILOS: A Posynomial Programming Approach to Transistor Sizing" pp. 326-328, IEEE, 1985.	
DM		MAULIK, P., et al., "Integer Programming Based on Topology Selection of Cell-Level Analog Circuits", 12 pages, IEEE Transactions On Computer-Aided Design Of Integrated Circuits And Systems, Vol. 14, No. 4, April 1995.	
DM		SWINGS, K., et al., "An Intelligent Analog IC Design System Based On Manipulation Of Design Equations" pp. 8.6.1- 8.6.4, IEEE 1990, Custom Integrated Circuits Conference.	
DM		NESTEROV, Y., et al., "Interior-Point Polynomial algorithms in Convex Programming" 8 pgs., 1994, Society for Industrial and Applied mathematics.	
DM		YANG, H.Z., et al., "Simulated Annealing Algorithm with Multi-Molecule: an Approach to Analog Synthesis" pp. 571-575, IEEE, 1996.	
DM		WONG, D.F., et al., "Simulated Annealing For VLSI Design" 6 pages, 1998, Kulwer Academic Publishers.	

Examiner
Signature

/David Mis/ (09/27/2006)

Date

Considered

09/27/2006

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.

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SEP 07 2004

Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/810,444
Filing Date	March 26, 2004
First Named Inventor:	David M. Colleran
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	004363.P005C

Sheet 3 of 3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
DM		MAULIK, P., et al., "Sizing of Cell-Level Analog Circuits Using Constrained Optimization Techniques" pp. 233-241, IEEE Journal of Solid-State Circuits, Vol. 28, No. 3, March 1993.	
DM		OCHOTTA, E, et al., "Synthesis of High -Performance Analog Circuits in ASTRX/OBLS" pp. 273-295, IEEE Transactions on Computer-Aided Design of Integrated Circuits And Systems, Vol. 15, No. 3, March 1996.	
DM		WRIGHT, S., "Primal-Dual Interior-Point Methods" pp. 1-3, http://www.siam.org/books/wright , Printed August 19, 1998.	
DM		SHYU, J., et al., "Optimization-Based Transistor Sizing" pp. 400-408, IEEE Journal of Solid-State Circuits, Vol. 23, No. 2, April 1998.	
DM		WRIGHT, S., "Primal-Dual Interior-Point Methods" 14 pages, 1997, Society for Industrial and Applied Mathematics.	
DM		VAN LAARHOVEN, P.J.M., et al., "Simulated Annealing: Theory and Applications" 26 pages, 1987, Kulwer Academic Publishers.	
DM		HERSHENSON, M., et al., "CMOS Operational Amplifier Design and Optimization via Geometric Programming" pp. 1-4, Analog Integrated Circuits, Stanford University.	
DM		AGUIRRE, M.A., et al., "Analog Design Optimization by means of a Tabu Search Approach" pp. 375-378.	
DM		MEDEIRO, F., et al., "A Statistical Optimization-Based Approach for Automated Sizing of Analog Cells", pp. 594-597, Dept. of Analog Circuit Design.	
DM		SPATNEKAR, S., "Wire Sizing as a Convex Optimization Problem: Exploring the Area-Delay Tradeoff" 27 pages, Dept. of Electrical and Computer Engineering.	
DM		SU, H., et al., "Statistical Constrained Optimization of Analog MOS Circuits Using Empirical Performance Models" pp. 133-136.	
DM		VASSILIOU, I., et al, "A Video Driver System Designed Using a Top-Down, Constraint-Driven Methodology" 6 pages.	
DM		SAPATNEKAR, S, et al., "An Exact Solution to the Transistor Sizing Problem for CMOS Circuits Using Convex Optimization" 35 pages.	

Examiner Signature	/David Mis/ (09/27/2006)	Date Considered	09/27/2006
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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



1PW

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application No.	10/810,444
		Filing Date	March 26, 2004
		First Named Inventor	David M. Colleran
		Art Unit	2123
		Examiner Name	Unassigned
Total Number of Pages in This Submission	7	Attorney Docket Number	4363P005C

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> PTO/SB/08 <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Basic Filing Fee <input type="checkbox"/> Declaration/POA <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Return Receipt Postcard.</div>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Robert B. O'Rourke, Reg. No. 46,972 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	2/27/06

CERTIFICATE OF MAILING/TRANSMISSION			
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Typed or printed name	Carla Vignola		
Signature		Date	2/27/06



FEE TRANSMITTAL for FY 2005

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$) 0.00

Complete if Known

Application Number 10/810,444
Filing Date March 26, 2004
First Named Inventor David M. Collieran
Examiner Name Unassigned
Art Unit 2123
Attorney Docket No. 4363P005C

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☒ None ☐ Other (please identify):

☒ Deposit Account Deposit Account Number: 02-2666 Deposit Account Name: Blakely, Sokoloff, Taylor & Zafman LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below

☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20. ☒ Credit any overpayments

FEE CALCULATION

1. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
8	20	0	\$0.00
Independent Claims	2	3	\$0.00
Multiple Dependent			
Large Entity	Small Entity	Fee Description	
Fee Code (\$)	Fee Code (\$)		
1202 50	2202 25	Claims in excess of 20	
1201 200	2201 100	Independent claims in excess of 3	
1203 360	2203 180	Multiple Dependent claim, if not paid	
1204 790	2204 395	**Reissue independent claims over original patent	
1205 300	2205 150	**Reissue claims in excess of 20 and over original patent	
SUBTOTAL (1)		(\$)	0.00

**or number previously paid, if greater. For Reissues, see below

2. ADDITIONAL FEES

Large Entity	Small Entity	Fee Description	
Fee Code (\$)	Fee Code (\$)		
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
2053 130	2053 130	Non-English specification	
1251 120	2251 60	Extension for reply within first month	
1252 450	2252 225	Extension for reply within second month	
1253 1,020	2253 510	Extension for reply within third month	
1254 1,590	2254 795	Extension for reply within fourth month	
1255 2,160	2255 1,080	Extension for reply within fifth month	
1401 500	2401 250	Notice of Appeal	
1402 500	2402 250	Filing a brief in support of an appeal	
1403 1,000	2403 500	Request for oral hearing	
1451 1,510	2451 1,510	Petition to institute a public use proceeding	
1460 130	2460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1808 180	1808 180	Submission of Information Disclosure Stmt	
1809 790	1809 395	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810 790	2810 395	For each additional invention to be examined (37 CFR § 1.129(b))	
Other fee (specify)		Submission of IDS before first Office Action	
SUBTOTAL (2)		(\$)	0.00

Fee Paid

0.00

(\$) 0.00

SUBMITTED BY

Name (Print/Type) Robert B. O'Rourke

Registration No. 46,972
(Attorney/Agent)

Complete (if applicable)

Telephone (408) 720-8300

Signature

Date 2/27/06



Docket No.: 4363P005C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

DAVID M. COLLERAN, ET AL.

Application No.: 10/810,444

Filed: March 26, 2004

For: **Automatic Phase Lock Loop Design Using
Geometric Programming**

Art Group: 2123

Examiner: Unassigned

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
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Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed). This IDS and IDS Citation Form are being submitted before the mailing of a first Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

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Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Date: 2/27/06

Respectfully submitted,


BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Robert B. O'Rourke, Reg. No. 46,972

12400 Wilshire Boulevard, 7th Floor
Los Angeles, CA 90025
Telephone: (408) 720-8300

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Substitute for Form 1449/PTO <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; margin-right: 10px; text-align: center;"> OIPE MAR 02 2006 PATENT & TRADEMARK OFFICE </div> <div> <h2 style="margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="margin: 0; font-size: small;">(use as many sheets as necessary)</p> </div> </div>			Complete if Known	
Application Number		10/810,444		
Filing Date		03-26-2004		
First Named Inventor:		Colleran, et al.		
Art Unit		2123		
Examiner Name		Unassigned		
Attorney Docket Number		004363.P005C		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-	Number-Kind Code ² (if known)			
DM		US-	6,588,002 B1	7/1/2003	Lampaert, et al.	
DM		US-	6,813,590 B1	11/2/2004	Crusius	
DM		US-	6,909,330 B2	6/21/2005	Colleran, et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Signature	/David Mis/ (09/27/2006)	Date Considered	09/27/2006
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IDS - 09/18/2006

SEP 18 2006

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application No.	10/810,444
Filing Date	March 26, 2004
First Named Inventor	David M. Collieran
Art Unit	2123
Examiner Name	Unassigned
Attorney Docket Number	4363P005C
Total Number of Pages in This Submission	7

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> PTO/SB/08 <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Basic Filing Fee <input type="checkbox"/> Declaration/POA <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Return Receipt Postcard.</div>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Robert B. O'Rourke, Reg. No. 46,972 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	

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FEE TRANSMITTAL for FY 2005

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$) 0.00

Complete if Known

Application Number	10/810,444
Filing Date	March 26, 2004
First Named Inventor	David M. Collieran
Examiner Name	Unassigned
Art Unit	2123
Attorney Docket No.	4363P005C

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☒ None ☐ Other (please identify): _____
☒ Deposit Account Deposit Account Number: 02-2666 Deposit Account Name: Blakely, Sokoloff, Taylor & Zafman LLP

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☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20. ☒ Credit any overpayments

FEE CALCULATION

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
2053	130	2053	130	Non-English specification	
1251	120	2251	60	Extension for reply within first month	
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1253	1,020	2253	510	Extension for reply within third month	
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1401	500	2401	250	Notice of Appeal	
1402	500	2402	250	Filing a brief in support of an appeal	
1403	1,000	2403	500	Request for oral hearing	
1451	1,510	2451	1,510	Petition to institute a public use proceeding	
1460	130	2460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
1809	790	1809	395	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b))	
Other fee (specify) Submission of IDS prior to first Office Action					0.00
SUBTOTAL (2)				(\$)	0.00

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Robert B. O'Rourke	Registration No. (Attorney/Agent)	46,972	Telephone	(408) 720-8300
Signature		Date	9/12/06		



Docket No.: 4363P005C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

DAVID M. COLLERAN, ET AL.

Application No.: 10/810,444

Filed: March 26, 2004

For: **Automatic Phase Lock Loop Design Using
Geometric Programming**

Art Group: 2123

Examiner: Unassigned

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

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Respectfully submitted,


BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: _____

9/12/06

Robert B. O'Rourke, Reg. No. 46,972

12400 Wilshire Boulevard, 7th Floor
Los Angeles, CA 90025
Telephone: (408) 720-8300

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